

FIG. 1

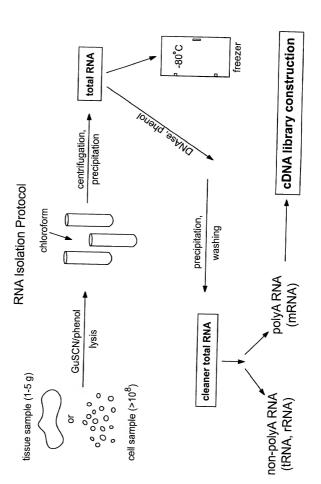
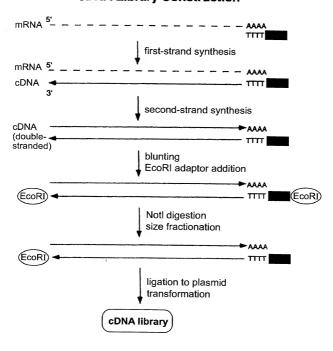


FIG. 2 cDNA Library Construction



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Filing Date: September 19, 2001
Serial Not: To be Assigned
Any Docker No: 06514098CON

Block 1 Sequence Editing Screens

facts ants	Target Sequence Feature Editing Method	Result
acts	Dynamic Programming	Sig
acts ents	Regular Expression	Sip
ents	Nearest Neighbor	Remove
ents	BLAST (S ≥ 90)	Mask
ents	BLAST (S ≥ 90)	Remove
	BLAST (S ≥ 90)	Mask
	BLAST (S ≥ 90)	Remove
Ribosomal RNA BLAST (S≥90)	BLAST (S≥90)	Remove

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FIG. 4

		99	26	26	26	224
0	۲	14	14	4	14	26
Expected	g	14	4	14	14	26
Exp	ပ	14	14	14	14	26
	4	14	14	14	14	26
	,	4	ပ	Ø	۲	
		26	26	26	26	224
	-	ω	8	ω	32	56
rrant						
Ë	g	ω	8	32	8	26
Aberrani	<u>ဖ</u>	8	32 8	8 32	8	56 56
Aberra						1

e.g. CCCCGGGGTTTTCCCCAAAAGGGG...

FIG. 5

Rigorous Statistics:

$$E = KNe^{-\lambda S}$$
 where $S = \sum_{HSP} s(a_i, b_j)$

$$s(a,a) = 5$$
 and $s(a,b) = -4$ for $a \neq b$

FIG. 6

Query	Match	BLAST Score	% ID	Length	Product Score
1969935 (238)	1798270	1103	99	259	91
	2057694	765	100	234	65
	1961765	600	100	245	50
	473298	318	92	261	25
473298 (261)	2057694 1961765 1969935 1798270	634 634 318 254	93 93 92 94	234 254 238 259	50 46 25 18

Alignments

1961765

473298



FIG. 7

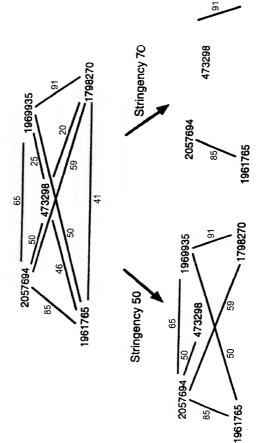


FIG. 8

Creating a Master Cluster

Example: Cluster - 12 (singleton), Cluster 2, and Cluster 1 all contain representative clones with PS ≥ 40 to Gene X.

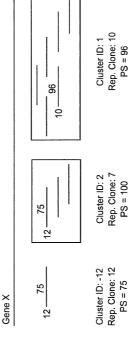
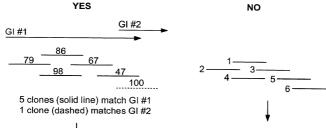


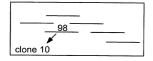
FIG. 9

Naming a Cluster

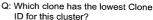
Q: Does any member of the cluster have a match to GenBank?

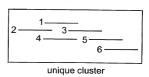


- Q: Which GI is represented the most in the cluster?
- A: GI #1 is represented the most.
- Q: Of those clones matching GI #1, which has the highest Product Score?



A: Clone 10 has a Product Score of 98, so the cluster is named after this representative clone.

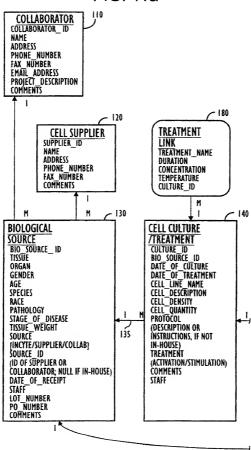


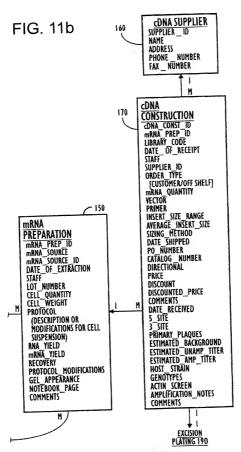


A: Clone 1 has the lowest ID, so the unique cluster is named after this representative clone.

REFERENCE DATABASES Applicant Lincoln et al.
Title: Database for Storage and
Analysis of Fall-Length Sequences Filing Date: September 19, 2001 Serial No.: To Be Assigned Atty Docket No: 06514069CON INTEGRATED ETHERNET NETWORK 1004000 DATABASE STORAGE FIG. 10 9 INTERFACE COMPUTER Ð MEMORY

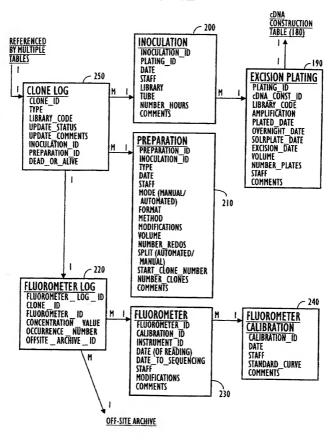
FIG. 11a

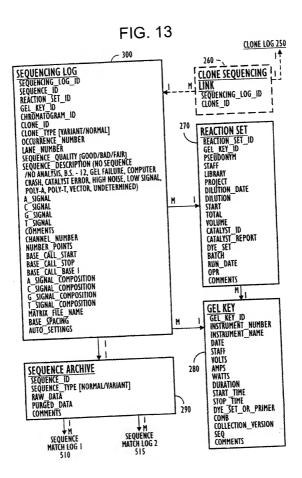


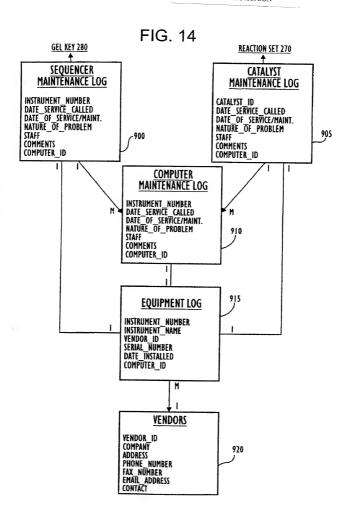


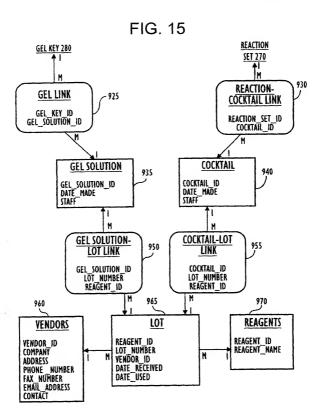
SUBSTITUTE SHEET (RULE 26)

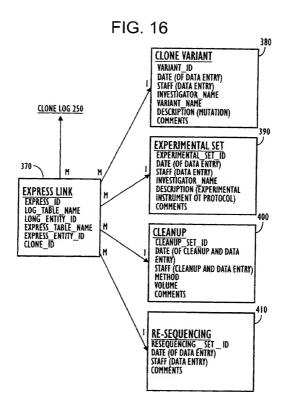
FIG. 12











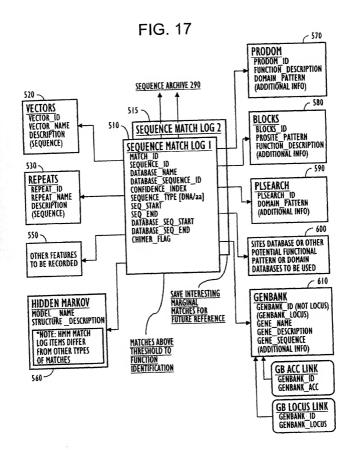


FIG. 18

